

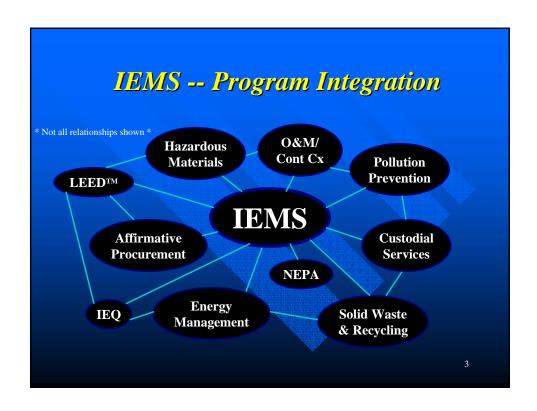
Pentagon Contracting Initiatives: Affirmative Procurement and Energy Conservation Defense Facilities Directorate, WHS



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Integrated Environmental Management System (IEMS)

- Technical Support Team
 - ➤ Positively influences all aspects of building operations
 - > Enhances quality of life for building occupants, while minimizing adverse environmental impacts
- LEED®
 - ➤ Only a benchmark
 - ➤ Team will adopt an integrated approach
- Development of Metrics



Affirmative Procurement Requirements

- All applicable facility contracts incorporate EPA's Comprehensive Procurement Guidelines
- Proposals require Environmental Stewardship Plans
- Require cost-effective waste reduction programs
- Certification from contractors regarding recovered/recycled materials

Examples of Pentagon Reservation Contracts with "Green" Language

- Operations & Maintenance (O&M)
- Major Construction
- Repairs & Alterations (R&A)
- Integrated Pest Management (IPM)
- Horticulture
- Custodial/Recycling
- Snow Removal

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Roads and Grounds

EPP Parking Lot Pilot Project

- Researched the market
- Identified environmental attributes (baseline)
- Evaluated EPP Plans in proposals
- Provided contractor a price differential
- Recycled content
 - ➤ Crack sealer (10% crumb rubber)
 - ➤ Asphalt (base course 25%, surface course 20%)
- Asphalt recycling

Repairs and Minor Alterations

Interior Renovation EPP Pilot Project

- Researched the market
- Cited environmental attributes in contract (baseline)
- Included EPP factors in performance evaluations
- Contract specifications required:
 - ➤ Energy efficient lighting
 - ➤ Gypsum wall board (100% recycled paper; 15% weight)
 - Suspended ceiling tile (60% recycled content)
 - > Steel (28% recycled content)
 - ➤ Mineral wool insulation
 - ➤ Low VOC paints and sealants

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Repairs and Minor Alterations (cont.)

Other Products Included:

- Wood from sustainable, managed forests
- Concrete masonry units (50% recycled content)
- Low water use plumbing fixtures
- Ceramic tile (20% recycled content)
- Construction debris recycling
- Packaging, labeling and instructions made from recycled materials

For more information see: http://www.epa.gov/opptintr/epp/

Sustainable Construction

- Pentagon Renovation & Construction
 Program Office (PENREN/C)
- Web site for Sustainable Design:

http://renovation.pentagon.mil/ sustainabledesign.htm

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New Custodial Contracts

- Performance Based Award Fees
- Require Environmental Stewardship Plans:
 - ➤ Affirmative Procurement Program for EPP
 - Products specified in EPA's Comprehensive Procurement Guidelines
 - ➤ Waste minimization and recycling programs
- Requires contractor to assist in Government recycling program
- Plastic trash bags (25% post-consumer content)
- Waste collection carts and containers
 - ➤ Noncombustible or flame resistant construction
 - > Constructed of environmentally preferable materials

New Custodial Contracts (cont.)

- Bathroom tissue (100% recovered materials and 50% post-consumer content)
- Toilet seat covers (100% recovered materials and 50% post-consumer content)
- Paper towels (100% recovered materials and 40% post-consumer content)
- General purpose industrial wipes (100% recovered materials and 40% post-consumer content)

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Example: Recycling Program

- Assist Recycling Program via custodial contracts
 - > Empty recycling bins and separate materials
 - > Custodial products with recycled content
- Development of metrics
 - > Trend data
 - ➤ Improve Program execution
- Affirmative Procurement of EPPs
- Education and outreach



Other Contracting Initiatives

- Initiate Recycling Program that diverts 50% of waste stream from landfills
- Integration of EPP products into all contracts
- Integrated sustainable design
- Meet or exceed EO 13101 & 13123
- Energy budgets
- Life cycle cost analysis
- Construction energy conservation plan
- Building commissioning

Contracting Initiatives (cont.)

Specific EPP Goals

- No materials manufactured with or containing:
 - ➤ Ozone-Depleting Substances (ODS)
 - ➤ Polyvinyl Chloride (PVC) or other chlorine-based compounds
 - ➤ Volatile Organic Compounds (VOC)
- Use building materials and products that:
 - ➤ Reduce greenhouse gas emissions
 - Conserve resources
- Use only wood products originating in well-managed forests certified by the Forest Stewardship Council

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Examples of Affirmative Procurement Program Results

- 47,215 ft millwork from sustainably managed forests
- 449 doors from sustainably managed forests
- 420,000 ft² gypsum wallboard (9 football fields)
- 273,222 ft² recycled ceiling tiles (6 football fields)
- 3,279,000 ft² low VOC or recycled paint (11,000 gal)
- 59,003 ft² recycled carpet tile
- 53,500 ft of 28% recycled steel wall studs (10 mi)
- 496,000 lbs construction debris recycled

Other Initiatives and Opportunities

- Deploy Environmental Management System (EMS) at worker level
- Capture EMS data (metrics) via daily work orders
- Energy conservation maximized, in part, by:
 - ➤ Building Commissioning shown to reduce energy consumption by 35%
 - ➤ Direct Digital Controls (DDC) Pentagon Building Operations and Command Center (BOCC) can:
 - ❖ Quickly identify HVAC failures
 - ❖ Optimize building systems performance

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For Specific Examples (on CD) of "Green" and Energy Conservation Contract Language

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